



MANIPUR AGROMET ADVISORY BULLETIN

Date of issue: 23rd October, 2018

District: Bishnupur

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| <p>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018) Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.</p> | <p>Weather forecast for next five days of Bishnupur (24th to 28th October, 2018) Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 98 % (max) and 54 % (min). The average wind speed may be 0-2 km/hr.</p> |
| <p>General Advisories:</p> <ul style="list-style-type: none"> * Monitor for insect pest infestation on crop. * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops. * Mulching may be done wherever possible to retain soil moisture for longer period. | |

| Field Crops | | | |
|-------------------------------------|--|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |

| Horticulture Crops | | | |
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| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Potato | Planting to early vegetative | | <ul style="list-style-type: none"> - Planting of potato may be done at a spacing of 60cm x 15-20cm. - Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting. - Seed rate is 25-30 quintals/ hectare. |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |

| Animal Sciences | | | |
|-------------------------|---------------------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight. |

| Fisheries | |
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| Carp culture | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. |

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23rd October, 2018*District: Chandel*

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| <p>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018) Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.</p> <p>General Advisories: * Monitor for insect pest infestation on crop. * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops. * Mulching may be done wherever possible to retain soil moisture for longer period.</p> | <p>Weather forecast for next five days of Chandel (24th to 28th October, 2018) Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 95 % (max) and 58 % (min). The average wind speed may be 2-3 km/hr.</p> |
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| Field Crops | | | |
|-------------------------------------|---|---------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Potato | Planting to early vegetative | | <ul style="list-style-type: none"> - Planting of potato may be done at a spacing of 60cm x 15-20cm. - Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting. - Seed rate is 25-30 quintals/ hectare. |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |
| Animal Sciences | | | |
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight. |
| Fisheries | | | |
| Carp culture | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. | | |



MANIPUR AGROMET ADVISORY BULLETIN

Date of issue: 23rd October, 2018

District: Churachandpur

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| <p>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018) Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.</p> | <p>Weather forecast for next five days of Churachandpur (24th to 28th October, 2018) Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 98 % (max) and 46 % (min). The average wind speed may be 2-3 km/hr.</p> |
| <p>General Advisories: * Monitor for insect pest infestation on crop. * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops. * Mulching may be done wherever possible to retain soil moisture for longer period.</p> | |

| Field Crops | | | |
|-------------------------------------|--|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |

| Horticulture Crops | | | |
|--------------------|---|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Potato | Planting to early vegetative | | <ul style="list-style-type: none"> - Planting of potato may be done at a spacing of 60cm x 15-20cm. - Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting. - Seed rate is 25-30 quintals/ hectare. |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |

| Animal Sciences | | | |
|-------------------------|---------------------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight. |

| Fisheries | |
|--------------|---|
| Carp culture | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. |

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23rd October, 2018*District: Imphal East***Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.

Weather forecast for next five days of Imphal East (24th to 28th October, 2018)

Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 96 % (max) and 49 % (min). The average wind speed may be 4-5 km/hr.

General Advisories:

- * Monitor for insect pest infestation on crop.
- * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- * Mulching may be done wherever possible to retain soil moisture for longer period.

| Field Crops | | | |
|-------------------------------------|---|---------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Potato | Planting to early vegetative | | <ul style="list-style-type: none"> - Planting of potato may be done at a spacing of 60cm x 15-20cm. - Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting. - Seed rate is 25-30 quintals/ hectare. |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorvos or inject 5 ml of Dichlorvos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |
| Animal Sciences | | | |
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight. |
| Fisheries | | | |
| Carp culture | | | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. |

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23rd October, 2018*District: Imphal West*

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| <p>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018) Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.</p> | <p>Weather forecast for next five days of Imphal West (24th to 28th October, 2018) Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 96 % (max) and 43 % (min). The average wind speed may be 4 km/hr.</p> |
| <p>General Advisories: * Monitor for insect pest infestation on crop. * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops. * Mulching may be done wherever possible to retain soil moisture for longer period.</p> | |

| Field Crops | | | |
|-------------------------------------|---|---------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Potato | Planting to early vegetative | | <ul style="list-style-type: none"> - Planting of potato may be done at a spacing of 60cm x 15-20cm. - Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting. - Seed rate is 25-30 quintals/ hectare. |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |
| Animal Sciences | | | |
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight. |
| Fisheries | | | |
| Carp culture | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. | | |



MANIPUR AGROMET ADVISORY BULLETIN

Date of issue: 23rd October, 2018

District: Senapati

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| <p>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018) Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.</p> | <p>Weather forecast for next five days of Senapati (24th to 28th October, 2018) Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 96 % (max) and 51 % (min). The average wind speed may be 3-4 km/hr.</p> |
| <p>General Advisories:</p> <ul style="list-style-type: none"> * Monitor for insect pest infestation on crop. * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops. * Mulching may be done wherever possible to retain soil moisture for longer period. | |

| Field Crops | | | |
|-------------------------------------|--|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |

| Horticulture Crops | | | |
|--------------------|---|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |

| Animal Sciences | | | |
|-------------------------|---------------------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @ 20-30ml for 100 kg body weight. |

| Fisheries | |
|--------------|---|
| Carp culture | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. |

(I. Meghachandra Singh)
Scientist i/c, GKMS



MANIPUR AGROMET ADVISORY BULLETIN

Date of issue: 23rd October, 2018

District: Tamenglong

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| <p>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018) Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.</p> | <p>Weather forecast for next five days of Tamenglong (24th to 28th October, 2018) Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 96 % (max) and 48 % (min). The average wind speed may be 3-4 km/hr.</p> |
| <p>General Advisories:</p> <ul style="list-style-type: none"> * Monitor for insect pest infestation on crop. * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops. * Mulching may be done wherever possible to retain soil moisture for longer period. | |

| Field Crops | | | |
|-------------------------------------|--|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |

| Horticulture Crops | | | |
|--------------------|---|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Potato | Planting to early vegetative | | <ul style="list-style-type: none"> - Planting of potato may be done at a spacing of 60cm x 15-20cm. - Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting. - Seed rate is 25-30 quintals/ hectare. |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |

| Animal Sciences | | | |
|-------------------------|---------------------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight. |

| Fisheries | |
|--------------|---|
| Carp culture | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. |



MANIPUR AGROMET ADVISORY BULLETIN

Date of issue: 23rd October, 2018

District: Thoubal

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| <p>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018) Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.</p> | <p>Weather forecast for next five days of Thoubal (24th to 28th October, 2018) Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 97 % (max) and 63 % (min). The average wind speed may be 0-2 km/hr.</p> |
| <p>General Advisories: * Monitor for insect pest infestation on crop. * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops. * Mulching may be done wherever possible to retain soil moisture for longer period.</p> | |

| Field Crops | | | |
|-------------------------------------|--|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |

| Horticulture Crops | | | |
|--------------------|---|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Potato | Planting to early vegetative | | <ul style="list-style-type: none"> - Planting of potato may be done at a spacing of 60cm x 15-20cm. - Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting. - Seed rate is 25-30 quintals/ hectare. |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |

| Animal Sciences | | | |
|-------------------------|---------------------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight. |

| Fisheries | |
|--------------|---|
| Carp culture | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. |



MANIPUR AGROMET ADVISORY BULLETIN

Date of issue: 23rd October, 2018

District: Ukhrul

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| <p>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd October, 2018) Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours but partly cloudy on 20th morning. Maximum temperature recorded ranged from 28.1 to 28.6 °C and minimum of 13.5 to 15.6 °C with mean relative humidity 85.5 % max and 41.3 % min was recorded in the past four days & average wind speed was 1.1– 2.1 km/ hr.</p> | <p>Weather forecast for next five days of Ukhrul (24th to 28th October, 2018) Likely to have light rains on Sunday and mainly clear to partly cloudy sky with maximum temp. 28 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 95 % (max) and 53 % (min). The average wind speed may be 3 km/hr.</p> |
| <p>General Advisories:</p> <ul style="list-style-type: none"> * Monitor for insect pest infestation on crop. * Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops. * Mulching may be done wherever possible to retain soil moisture for longer period. | |

| Field Crops | | | |
|-------------------------------------|--|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Maturity to harvesting and post harvesting stage | | <ul style="list-style-type: none"> - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage. |
| Rapeseed/Mustard/ Field pea/ Lentil | Sowing | | <ul style="list-style-type: none"> - Rapeseed/Mustard/ Lentil/ Field pea may be sown just after harvesting rice/ soybean/ groundnut/ black-gram/ rice-bean to make full utilization of the residual moisture. |
| Seeds storage | Post-harvest management | | <ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth. |

| Horticulture Crops | | | |
|--------------------|---|------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Cole crops | Nursery (late ver.), transplanting to vegetative (main season var.) | | <ul style="list-style-type: none"> - Weeding may be done if weed population is high to avoid insect pest and better growth of the crop. - Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. |
| Citrus | Bearing trees | Trunk borer | <ul style="list-style-type: none"> - Kill the trunk borer grubs. - Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year. |

| Animal Sciences | | | |
|-------------------------|---------------------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | Coccidiosis | Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose. |
| | | Deworming | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. |
| Sheep/ Goat | All age groups | Deworming | - Give Ranizole suspension @ 3ml/ 10 kg body weight. |
| | | Fascioliosis | Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. |
| Pig | All age groups except the young ones | Deworming | Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. |
| | | | Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. |
| Cattle | All age groups excepts the young ones | Vaccination | Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. |
| | | Tick | Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. |
| | | | Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. |
| | | Deworming | De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight. |

| Fisheries | |
|--------------|---|
| Carp culture | - Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. |

(I. Meghachandra Singh)
Scientist i/c, GKMS